ASTER_IRD_FPRS_LINKS_CORRECTIONS

IRD	IRD_seg	IRD_text	IRD_clar	FPRS	L3_type	L3_segm	L3_text	L3_clarifi
	ment		ification			ent		cation
ASTER-0010	SDPS CSMS	ECS and ASTER GDS shall conform to the IRD Between EOSDIS Core System and Science Computing Facilities with regard to the passing of data production software, calibration coefficients, data product quality assurance information and other data between the two systems in support of data production software development for standard ASTER data products.		EOSD17 50	interface	CSMS	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, PIs, and Co-Is):a. Algorithmsb. S oftware fixesc. Instrument calibration datad. Integration support requestse. Metadata for Special Products archivingf. Data transfer requests (inventories, directories, and browse) g. Data Quality/Instrument assessmenth. Instrument operations informationi. Ancillar y data	
				EOSD17 60	interface	CSMS	The ECS elements shall send the following types of data at a minimum to the ECS science community (TLs, TMs, PIs, and Co-Is):a.Software Problem Reportsb.Document ationc.Metadata (copies of inventories)d.Brows e datae.Archived dataf.Accounting information	

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ASTER- 0020	SDPS	ASTER GDS shall have the capability to send and ECS (EDC DAAC) shall have the capability to receive all algorithms, source code, and documentation used by the ASTER GDS to process ASTER Level 0 data to Level 1 and higher level standard products.	DADS02	functiona	SDPS	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, PIs, and Co-Is):a.Algorithmsb.S oftware fixesc.Instrument calibration datad.Integration support requestse.Metadata for Special Products archivingf.Data transfer requests (inventories, directories, and browse)g.Data Quality/Instrument assessmenth.Instrument operations informationi.Ancillar y data Each DADS shall	Deleted
			DADS02 00	functiona 1	SDPS	Each DADS shall receive from the IPs at a minimum, the following:a.L.O-L4 data productsb.Orbit/attit ude datac.Metadata associated with data setsd.Ancillary datae.Calibration dataf.Correlative datag.Documentsh. Algorithms	Deleted 604 L2 trace. DVDelet ed 1411 L2 trace. DVDelet ed 1427 L2 trace. DV
ASTER- 0030	SDPS	ECS (EDC DAAC) shall have the capability to send and ASTER GDS shall have the capability to receive all algorithms, source code, and documentation used by ECS to process ASTER Level 1 data to higher level products.	EOSD17 60	interface	CSMS	The ECS elements shall send the following types of data at a minimum to the ECS science community (TLs, TMs, PIs, and Co-Is):a.Software Problem Reportsb.Document ationc.Metadata (copies of inventories)d.Brows e datae.Archived dataf.Accounting information	
ASTER- 0040	CSMS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive EOS Long Term Science Plans.	ICC- 0040	functiona 1	FOS	The ICC shall receive the LTSP and LTIP from the SMC.	

ASTER-	CSMS	ECS shall have the	SMC- 1300	functiona 1	CSMS	The SMC shall support and maintain the ECS policies and procedures regarding instrument and ground event scheduling, including, at a minimum:a.Mission and science guidelinesb.Directive s for scheduling instrument data ingest, processing, reprocessing, retrieval, and data distribution The ICC shall	Deleted 1469,147 8 L2 traces. DV
0045		capability to send and ASTER GDS shall have the capability to receive EOS Long Term Instrument Plans.	0040	1		receive the LTSP and LTIP from the SMC.	
			SMC- 1300	functiona 1	CSMS	The SMC shall support and maintain the ECS policies and procedures regarding instrument and ground event scheduling, including, at a minimum:a.Mission and science guidelinesb.Directive s for scheduling instrument data ingest, processing, reprocessing, retrieval, and data distribution	Deleted 1469,147 8 L2 traces. DV
ASTER- 0050	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive requests for updates to the ASTER operations data base.	EOC- 7015	functiona 1	FOS	The EOC shall receive from the ICCs instrument-specific portion of the PDB and/or any updates thereto.	
ASTER- 0060	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive an updated EOC operations data base, containing at a minimum, spacecraft and instrument telemetry formats, limits, and associated information and ASTER instrument command formats andassociated information.	EOC- 7015	functiona 1	FOS	The EOC shall receive from the ICCs instrument-specific portion of the PDB and/or any updates thereto.	

ASTER-	SDPS	ASTER GDS shall	IMS-	interface	SDPS	The IMS shall
0100		have the capability to	0280			maintain DAR
		send and ECS shall				generation
		have the capability to				information, for
		receive information				example, instrument
		on ASTER				information received
		instrument				from the ICC and
		operations and				spacecraft
		constraints that may				information received
		be applicable to				from the EOC, in a
		DAR specification.				data base which will
		The ASTER				be accessible during
		instrument constraint				the DAR planning
		information shall				and submittal
		include (at a				process.
		minimum):a.				
		descriptive				
		information for the				
		ASTER				
		instrumentb. default				
		settings for				
		instrument				
		configurable				
		parametersc.range of				
		values for				
		instrument				
		configurable				
		parametersd.				
		instrument constraint				
		information				
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ASTER-	SDPS	ECS shall have the	IMS-	interface	SDPS	The IMS shall	
0110		capability to send	1261			provide the	
		and ASTER GDS				capability to forward	
		shall have the				data acquisition	
		capability to receive				requests to the	
		DARs for the				ASTER GDS, in	
		ASTER instrument.				accordance with	
		DARs shall contain				applicable IRDs and	
		the following				ICDs.	
		information, at a					
		minimum:a.					
		Observation					
		numberb.					
		Experimenter					
		identificationc.					
		Experimenter Experimenter					
		addressd.					
		Investigation					
		identificatione.					
		Scientific disciplinef.					
		Observation					
		repetition periodg.					
		Tolerance in					
		observation timeh.					
		User priorityi.					
		Scheduling priority					
		and target of					
		opportunity flagj.					
		Descriptive textk.					
		Location data					
		expressed in terms					
		of longitude and					
		latitude as earliest					
		start coordinates and					
		latest stop					
		coordinatesl. Earliest					
		start timem. Latest					
		stop timen.					
		Minimum coverage					
		requiredo.					
		Maximum coverage					
		desiredp. Number of					
		instruments involved					
		in the investigationq.					
		Which instruments					
		are involved in the					
		investigation.r.Assoc					
		iated product					
		generation request					
		and product					
		distribution request					

IMS- 1070 Invertional SDPS The IMS shall provide the capability for users to construct DARS for collection of EOS data which shall contain the following information at a minimum: a.Observation numberb.Experimen ter identificatione.Exper imenter addressed.Investigation nidentificatione.Scient iffice disciplinef.Observation or repetition periodg. Tolerance in observation timeh. User priority; Scheduling priority and target of opportunity flagi. Descriptive textk. Location data expressed in terms of longitude and latitude as earliest start coordinates and latest stop coordinates. Earliest start timem. Latest stop timen. Minimum coverage requiredo. Maximum coverage desiredp. Number of instruments involved in the investigationq. Which in instruments are				INAC			1 1 1 1 2 2 3 1 N A 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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ASTER- 0120	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive DAR status, when requested by ECS. DAR status shall include such information as confirmation or rejection of the DAR, and notification of DAR scheduling and completion, to include at a minimum:a. Date and timeb.Instrument IDc. DAR IDd. Request statuse.Implementati on schedulef. If rejection, then the reason for the rejection.	IMS- 1262	interface	SDPS	The IMS shall provide the capability to receive the ASTER GDS data acquisition request status in accordance with applicable IRDs and ICDs and provide the status to the data acquisition requester.	
			IMS- 1260	interface	SDPS	The IMS shall provide the capability to receive, from the IP Information Management System or an equivalent IP facility, data acquisition request status in accordance with applicable MOUs and provide the status to the data acquisition requester.	Deleted 1141 L2 trace. DV
ASTER- 0130	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive queries for the current status of ASTER DARs which were previously submitted to the ASTER GDS by ECS.	IMS- 1262	interface	SDPS	The IMS shall provide the capability to receive the ASTER GDS data acquisition request status in accordance with applicable IRDs and ICDs and provide the status to the data acquisition requester.	
			IMS- 1260	interface	SDPS	The IMS shall provide the capability to receive, from the IP Information Management System or an equivalent IP facility, data acquisition request status in accordance with applicable MOUs and provide the status to the data acquisition requester.	Deleted 1141 L2 trace. DV

ASTER-	FOS	ECS shall have the		EOC-	functiona	FOS	The EOC shall	
0200		capability to send		2010	1		accept from the FDF	
		and ASTER GDS					planning and	
		shall have the					scheduling	
		capability to receive					information for the	
		planning aids (e.g.,					EOS spacecraft and	
		predicted orbit data,					instruments, which	
		and spacecraft					includes, at a	
		maneuver					minimum, the	
		information).					following:a.Predicte	
							d orbit data including	
							predicted ground trackb.EOS	
							spacecraft UAV	
							datac.PSATsd.	
							Spacecraft	
							maneuver	
							information	
				EOC-	security	FOS	The EOC shall	
				2040			provide to any	
							authorized users	
							(including the ICCs)	
							read-only access to	
							EOS planning and	
							scheduling	
ACTED	FOS	ACTED CDC -111		FOC	£4:	FOS	information.	
ASTER- 0210	FOS	ASTER GDS shall		EOC- 2270	functiona l	FOS	The EOC shall accept an instrument	
0210		have the capability to send and ECS shall		2270	1		resource profile or	
		have the capability to					instrument resource	
		receive ASTER					deviation list (when	
		instrument resource					a resource profile	
		profiles and	1	l		l	exists for the	
		profiles and instrument resource					exists for the instrument) from	
		instrument resource					exists for the instrument) from each ICC.	
		1					instrument) from	
		instrument resource deviation lists (when					instrument) from each ICC.	
ASTER-	FOS	instrument resource deviation lists (when a resource profile exists). ECS shall have the		EOC-	functiona	FOS	instrument) from each ICC. Whenever the ICC's	
ASTER- 0220	FOS	instrument resource deviation lists (when a resource profile exists). ECS shall have the capability to send		EOC- 2290	functiona 1	FOS	instrument) from each ICC. Whenever the ICC's instrument resource	
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ASTER- 0230	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive a preliminary resource schedule. The preliminary resource schedule shall include, at a minimum, the following:a. Activity and DAR identifiersb. Resource availability and usage requirementsc. Time constraintsd. TDRSS schedule	EOC- 2040	security	FOS	The EOC shall provide to any authorized users (including the ICCs) read-only access to EOS planning and scheduling information.	
			EOC- 2350	functiona 1	FOS	The EOC shall provide the preliminary resource schedule to the ICCs upon generation.	
			EOC- 2320	functiona 1	FOS	The preliminary resource schedule shall include, at a minimum, the following:a.Activity or DAR identifiersb.Resource availability and usage requirementsc.Time constraints and alternatives for planned activitiesd. TDRSS schedule	
ASTER- 0240	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive instrument activity lists and instrument activity deviation lists (when an activity list exists) and any updates thereto.	EOC- 2480	functiona 1	FOS	The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto.	
ASTER- 0250	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive a notification when the ASTER instrument activities cannot be integrated into the detailed activity schedule.	EOC- 2540	functiona 1	FOS	The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	

ASTER-0260	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive detailed activity schedules and any updates. The detailed activity schedule shall include, at a minimum, the following:a. Instrument activitiesb. Spacecraft activities necessary to support all instrument activitiesc. All spacecraft activities necessary for spacecraft subsystem maintenanced. Spacecraft resource requirements for each activitye. Traceability of instrument activities to DARs	EOC- 2040	security	FOS	The EOC shall provide to any authorized users (including the ICCs) read-only access to EOS planning and scheduling information.	
			EOC- 2550	functiona 1		The detailed activity schedule shall include, at a minimum, the following:a. Instrument activitiesb. Spacecraft activities necessary to support all instrument activitiesc. Spacecraft activities necessary for the spacecraft subsystem maintenanced. Spacecraft resource requirements for each activitye. Traceability of instrument activities to DARs.	
			EOC- 2620	functiona 1	FOS	The EOC shall provide the ICC with the detailed activity schedule and any updates upon generation.	

ASTER- 0300	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive, both electronically and by voice, information to facilitate, at a minimum, the following:a. Planning of coordinated operationsb. Resolution of conflictsc. Exchange of instrument status	ICC- 0050	functiona 1	FOS	An ICC shall have the capability to interface with other ICCs both electronically and by voice to facilitate, at a minimum, the following:a.Planning of coordinated operationsb.Resoluti on of conflictsc.Exchange of instrument status	
ASTER- 0310	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive, both electronically and by voice, information to facilitate, at a minimum, the following:a. Planning of coordinated operationsb. Resolution of conflictsc. Exchange of instrument status	ICC- 0050	functiona l	FOS	An ICC shall have the capability to interface with other ICCs both electronically and by voice to facilitate, at a minimum, the following:a.Planning of coordinated operationsb.Resoluti on of conflictsc.Exchange of instrument status	
ASTER- 0340	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive "What-If" planning and scheduling inputs.	EOC- 2260	security	FOS	The EOC shall provide 'what-if' capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs.	
ASTER- 0350	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive "What-If" planning and scheduling results.	EOC- 2260	security	FOS	The EOC shall provide 'what-if' capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs.	
ASTER- 0410	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive command load generation status information, including at a minimum, the following:a. Spacecraft Control Computer (SCC)-stored command load reportb. Integrated report having orbital events, command execution times, and TDRSS contacts with candidate loads	EOC- 3160	functiona 1	FOS	The EOC shall generate operational reports including, at a minimum, the following:a.SCC-stored command load reportb.Integrated report having orbital events, command execution times, and TDRS contacts with candidate loads.	

ASTER- 0520	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive real time command groups.	EOC- 4017	functiona 1	FOS	The EOC shall receive from the ICC instrument real-time command groups destined for the EOS spacecraft and instruments.	
ASTER- 0530	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive instrument command uplink status. Instrument command uplink status shall include (at a minimum):a. receipt of the command group at the EOCb. validation status at the EOCc. receipt of the command at the AM-1 spacecraft	EOC- 4166	functiona 1	FOS	The EOC shall provide the ICC with instrument uplink status, which includes at a minimum the following:a.Receipt at the EOCb.Validation statusc.Receipt at the spacecraft and instrument	
ASTER- 0540	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive pre-planned command groups.	EOC- 3200	functiona 1	FOS	The EOC shall accept from the ICC instrument preplanned command groups for issuance by the EOC in the event of an anomaly that requires an immediate responseor in the event that the ICC is unable to command the instrument.	
ASTER- 0550	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive instrument command notification when ECS issues emergency/continge ncy ASTER command groups.	EOC- 4168	functiona 1	FOS	The EOC shall provide the ICCs with instrument command notification messages, when emergency/continge ncy instrument commands are issued.	
ASTER- 0570	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive ASTER instrument status data.	EOC- 6020	functiona 1	FOS	The EOC shall accept instrument status data from each ICC.	
ASTER- 0580	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive AM-1 spacecraft status data.	EOC- 7125	functiona 1	FOS	The EOC shall provide spacecraft status data to an ICC.	

ASTER- 0590	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive mission status reports.	EOC- 7125	functiona 1		The EOC shall provide spacecraft status data to an ICC.	
ASTER- 0600	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive instrument history log data and associated metadata.	DADS01 50	functiona 1	SDPS	Designated DADS shall receive from the ICC, at a minimum, the following:a.Instrume nt history log (or subset of history log)b. Associated Metadata	Deleted 592 L2 trace. DV
ASTER- 0700	SDPS	ASTER GDS shall have the capability to send and ECS (EDC DAAC) shall have the capability to receive Level 1a data products, including associated ancillary data, metadata, and browse.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			DADS02 00	functiona 1	SDPS	Each DADS shall receive from the IPs at a minimum, the following:a.L0-L4 data productsb.Orbit/attit ude datac.Metadata associated with data setsd.Ancillary datae.Calibration dataf.Correlative datag.Documentsh. Algorithms	Deleted 604 L2 trace. DVDelet ed 1411 L2 trace. DVDelet ed 1427 L2 trace. DV
			SDPS00 25		SDPS	The SDPS shall accept scientific and non-scientific investigator supplied dataset specific data transformations.	
			SDPS00 20		SDPS	The SDPS shall receive EOS science, engineering, ancillary, and quicklook data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.	Deleted 604 L2 trace. DV

ASTER- 0710	SDPS	ASTER GDS shall have the capability to send and ECS (EDC DAAC) shall have the capability to receive Quick Look Level 1 (TBD) data products, including associated ancillary	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and	
		data, metadata, and browse. [TBR]				scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			DADS02 00	functiona l	SDPS	Each DADS shall receive from the IPs at a minimum, the following:a.L.O-L4 data productsb.Orbit/attit ude datac.Metadata associated with data setsd.Ancillary datae.Calibration dataf.Correlative datag.Documentsh. Algorithms	Deleted 604 L2 trace. DVDelet ed 1411 L2 trace. DVDelet ed 1427 L2 trace. DV
			SDPS00 25		SDPS	The SDPS shall accept scientific and non-scientific investigator supplied dataset specific data transformations.	
			SDPS00 20		SDPS	The SDPS shall receive EOS science, engineering, ancillary, and quicklook data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.	Deleted 604 L2 trace. DV
ASTER- 0730	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive orbit/attitude data anomaly notifications.	DADS23 90	functiona 1	SDPS	Each DADS shall send to the IPs, at a minimum, the following:a.L0- L4b.Metadatac.Ancil lary datad.Calibration datae.Correlative dataf.Documents	
ASTER- 0740	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive repaired/refined orbit data provided to ECS by the GSFC Flight Dynamics Facility.	DADS23 90	functiona l	SDPS	Each DADS shall send to the IPs, at a minimum, the following:a.L0- L4b.Metadatac.Ancil lary datad.Calibration datae.Correlative dataf.Documents	

ASTER- 0750	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive repaired/refined attitude data provided to ECS by the GSFC Flight Dynamics Facility.	DADS23 90	functiona l	SDPS	Each DADS shall send to the IPs, at a minimum, the following:a.L0- L4b.Metadatac.Ancil lary datad.Calibration datae.Correlative dataf.Documents	
ASTER- 0760	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive data availability schedules for ASTER GDS data products which were requested by ECS.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			DADS20 20	functiona 1	SDPS	Each DADS shall have the capability to receive data availability schedules at a minimum, from: a.EDOSb.IPsc.ADC sd.ODCse.Other DADSf.TRMM (SDPF)	
			PGS- 0150	functiona 1	SDPS	The PGS shall receive from the collocated DADS data availability schedules for remote DADS, EDOS, SDPF, the IPs, the ADCs and ODCs.	
ASTER- 0770	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive data availability schedules for ECS data products which were requested by ASTER GDS.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			SDPS01 10		SDPS	The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.	

ASTER- 0780	SDPS	ECS shall have the capability to send	SDPS01		SDPS	The SDPS shall be responsible for	
0/80		and ASTER GDS shall have the	10			coordination of the transfer of	
		capability to receive schedule				production and quick-look science	
		adjudication data.				and engineering data from EDOS, SDPF,	
						and the IPs.	
			SMC- 1500	functiona 1	CSMS	The SMC shall perform schedule	
						conflict analysis and resolution services in	
						response to a	
						schedule conflict involving sites, ECS	
						elements, or external	
						elements, agencies, or organizations,	
						except for conflicts associated with flight	
Aggree	appa	A GENERAL COLOR	appasi		anna	operations.	
ASTER- 0790	SDPS	ASTER GDS shall have the capability to	SDPS01 10		SDPS	The SDPS shall be responsible for	
		send and ECS shall have the capability to				coordination of the transfer of	
		receive schedule				production and	
		adjudication data.				quick-look science and engineering data	
						from EDOS, SDPF, and the IPs.	
			SMC-	functiona	CSMS	The SMC shall	
			1500	1		perform schedule conflict analysis and	
						resolution services in	
						response to a schedule conflict	
						involving sites, ECS elements, or external	
						elements, agencies,	
						or organizations, except for conflicts	
						associated with flight operations.	
ASTER-	SDPS	ECS shall have the	IMS-	interface	SDPS	The IMS shall	
0800		capability to send and ASTER GDS	0380			provide the capability to	
		shall have the capability to receive				exchange directory data with IP data	
		dependent valids				centers, ADCs, and	
		information related to ECS data				selected ODCs.	
ASTER-	SDPS	products. ASTER GDS shall	IMS-	interface	SDPS	The IMS shall	
0805		have the capability to	0380	interface	5515	provide the	
		send and ECS shall have the capability to				capability to exchange directory	
		receive dependent valids information				data with IP data centers, ADCs, and	
		related to ASTER				selected ODCs.	
		GDS data products.	IMS-	interface	SDPS	The IMS shall	
			0390			maintain or provide access to directory	
						entries for all data	
						sets accessible through the IMS	
						search and order service.	
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ASTER SDPS ECS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and command are the capability to send and capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to send and ASTER GDS shall have the capability to receive directory metadata related to ECS data products. IMS- interface SDPS The IMS shall provide the capability to shall have the capability to receive data the product of the capability to shall have the capability to receive directory or the data at a minimum with the preaches the command to the command to the capability to receive data the command to the capability to receive data the capability to the capability to the capability to receive data the capability to receive data the capability to receive data the capability to the capability to receive data the capability to the capability t				IMS-	functiona	SDPS	The IMS shall
upon the user's display device capabilities, a user-friendly interface with the following features at a minimum: Multiple window displayb. Buttons and pull down menusc. Valid lists for all variablesd. An information base of associations between variables (e.g., between instruments and geophysical parameters)e. Ability to restore a session after interruption (Context -sunsitive helps, Minimal and consistent use of non-standard keysh Random movement through fields. Capability to save and restore the contents of a menu or form). Save and restore the contents of a menu or form) Standardized use of commands and terminology across screensk. Self-explanatory, meaningful error messagesl. Automatic a acronym expansion, which can be enabled and disabled interactivelym. Avail ability of a menu tree diagramm. Command language ASTER. SDPS ECS shall have the capability to send and ASTER GDS shall have the capability or cervice directory metadata related to ECS data products. BOPS CEC selements shall explain the product of data at a minimum with the IPsa. Instrument command loadsb. Science data. Planning and scheduling datad. Directoriese. Product Orderst Status data IMS- interface SDPS The IMS shall provide the capability to						מושט	
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exchange directory							exchange directory
data with IP data							data with IP data
centers, ADCs, and							
selected ODCs.							selected ODCs.

ASTER- 0815	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive directory metadata related to ASTER GDS data products.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			IMS- 0380	interface	SDPS	The IMS shall provide the capability to exchange directory data with IP data centers, ADCs, and selected ODCs.	
			IMS- 0390	interface	SDPS	The IMS shall maintain or provide access to directory entries for all data sets accessible through the IMS search and order service.	
ASTER- 0820	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive inventory search requests.	EOSD50 60	evolvable	FOS/SD PS/CSM S	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER- 0825	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive guide search requests.	EOSD50 60	evolvable	FOS/SD PS/CSM S	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER- 0835	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive inventory data search results.	EOSD50 60	evolvable	FOS/SD PS/CSM S	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	

ASTER- 0840	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive guide search results.	EOSD50 60		FOS/SD PS/CSM S	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb. Data retrieval services.
ASTER- 0845	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive browse results.	EOSD50 60	evolvable	FOS/SD PS/CSM S	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.
ASTER- 0850	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive inventory search requests.	EOSD50 60	evolvable	FOS/SD PS/CSM S	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.
ASTER- 0855	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive guide search requests.	EOSD50 60	evolvable	PS/CSM S	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.
ASTER- 0860	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive browse requests.	EOSD50 60	evolvable	FOS/SD PS/CSM S	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.

ASTER- 0865	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive inventory search results.	EOSD50 60		PS/CSM S	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER- 0870	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive guide search results.	EOSD50 60	evolvable	PS/CSM S	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER- 0875	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive browse results.	EOSD50 60	evolvable	FOS/SD PS/CSM S	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER- 0880	CSMS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive user authentication requests for ASTER GDS privileges of EOSDIS users.	SMC- 5320	security	CSMS	The SMC shall establish, maintain, and authenticate access privileges for ECS scientific users.	Deleted 1255 L2 trace. DV
ASTER- 0885		ASTER GDS shall have the capability to send and ECS shall have the capability to receive user authentication information specifying ASTER GDS privileges for EOSDIS users.	SMC- 5320	security	CSMS	The SMC shall establish, maintain, and authenticate access privileges for ECS scientific users.	Deleted 1255 L2 trace. DV
ASTER- 0890	CSMS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive user authentication requests for ECS privileges of ASTER GDS users.	SMC- 5320	security	CSMS	The SMC shall establish, maintain, and authenticate access privileges for ECS scientific users.	Deleted 1255 L2 trace. DV

ASTER- 0895	CSMS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive user authentication information specifying ECS privileges for ASTER GDS users.	SMC- 5320	security	CSMS	The SMC shall establish, maintain, and authenticate access privileges for ECS scientific users.	Deleted 1255 L2 trace. DV
ASTER- 0900	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive product requests for ASTER GDS data products.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			IMS- 0900	interface	SDPS	The IMS shall provide an interface to the IPs for ordering data to be delivered directly to the user or to a DADS.	Interface is bi- directiona l
ASTER- 0905	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive product generation requests for ASTER GDS data products. Product generation requests will include an associated product distribution request.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			IMS- 0900	interface	SDPS	The IMS shall provide an interface to the IPs for ordering data to be delivered directly to the user or to a DADS.	Interface is bi- directiona l

ASTER-	SDPS	ASTER GDS shall	 EOSD17	interface	SDPS/C	ECS elements shall	
0910	SDPS		70	merrace	SMS		
0910		have the capability to	70		SMS	exchange the	
1		send and ECS shall				following types of	
		have the capability to				data at a minimum	
		receive product				with the	
		delivery status				IPs:a.Instrument	
		information.				command	
1		Product delivery				loadsb.Science	
1		status information				datac.Planning and	
1		contains the				scheduling	
1		following				datad.Directoriese.Pr	
		information, at a				oduct Ordersf.Status	
		minimum:a.				data	
1		Requester				Gata	
1		identificationb.					
1		Request					
1							
		identificationc.					
1		Request statusd. If					
1		rejection, then the					
		reason for the					
1		rejectione. If delayed					
1		longer than the latest					
1		completion time					
		specified by the user,					
		adjusted start and					
		stop times.					
			IMS-	functiona	SDPS	The IMS shall accept	
1			1010	1		from the PGS a	
1						processing status	
						message to confirm	
						or reject a processing	
1						order, which shall	
1						contain the following	
1						information at a	
						minimum:a.Request	
1						er	
1						identificationb.Reque	
						st	
						identificationc.Reque	
1						st status d.If	
						rejection, then the	
1						reason for the	
						rejectione. If delayed	
						longer than latest	
						completion time	
1						specified by user,	
						adjusted start and	
						completion times.	

	1		IMS-	functiona	SDPS	The IMS shall
ASTED	SUDS	ECS shall have the	0820	1		provide to the user product order status information from the DADS to confirm or reject an order, which contains the following information at a minimum:a.Request er identificationb.Reque st identificationc.Reque st statusd.If rejection, then the reason for the rejectione. If delayed longer than latest completion time specified by user, adjusted start and completion times
ASTER- 0915	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive requests for product delivery status.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data
ASTER- 0920	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive product requests for ECS data products.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data
			IMS- 0780	interface	SDPS	The IMS shall accept and validate from the ECS users, IPs, ADCs, and ODCs requests for ECS archival data products.
ASTER- 0925	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive product generation requests for ECS data products. Product generation requests will include an associated product distribution request.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data

			IMS- 0780	interface	SDPS	The IMS shall accept and validate from the ECS users, IPs, ADCs, and ODCs requests for ECS archival data products.	
ASTER- 0930	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive product delivery status information. Product delivery status information contains the following information, at a minimum:a. Requester identificationb. Request identificationc. Request statusd. If rejection, then the reason for the rejectione. If delayed longer than the latest completion time specified by the user, adjusted start and stop times.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			IMS- 1010	functiona 1	SDPS	The IMS shall accept from the PGS a processing status message to confirm or reject a processing order, which shall contain the following information at a minimum:a.Request er identificationb.Reque st identificationc.Reque st status d.If rejection, then the reason for the rejectione. If delayed longer than latest completion time specified by user, adjusted start and completion times.	

			IMS-	functiona	SDPS	The IMS shall
ACTED	gppg	ACTED CDG 1 11	0820	1		provide to the user product order status information from the DADS to confirm or reject an order, which contains the following information at a minimum:a.Request er identificationb.Reque st identificationc.Reque st statusd.If rejection, then the reason for the rejectione. If delayed longer than latest completion time specified by user, adjusted start and completion times
ASTER- 0935	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive requests for product delivery status.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data
ASTER- 0940	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive Level 0 - Level 4 data products, including associated ancillary, metadata, and browse.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data
			DADS23 90	functiona 1	SDPS	Each DADS shall send to the IPs, at a minimum, the following:a.L0-L4b.Metadatac.Ancil lary datad.Calibration datae.Correlative dataf.Documents
			SDPS01 00		SDPS	The SDPS shall be responsible for delivery of EOS data and data products to the IPs, the ADCs, the ODCs, and the other science users via EOSDIS networks and on a variety of physical media.

ASTER- 0945	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive Level 1b - Level 4 ASTER data products, including associated ancillary, metadata, and browse.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			SDPS00 20		SDPS	The SDPS shall receive EOS science, engineering, ancillary, and quicklook data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.	Deleted 604 L2 trace. DV
			DADS02 00	functiona l	SDPS	Each DADS shall receive from the IPs at a minimum, the following:a.L.O-L4 data productsb.Orbit/attit ude datac.Metadata associated with data setsd.Ancillary datae.Calibration dataf.Correlative datag.Documentsh. Algorithms	Deleted 604 L2 trace. DVDelet ed 1411 L2 trace. DVDelet ed 1427 L2 trace. DV
ASTER- 0950	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive ancillary data, including associated metadata.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			DADS23 90	functiona l	SDPS	Each DADS shall send to the IPs, at a minimum, the following:a.L0- L4b.Metadatac.Ancil lary datad.Calibration datae.Correlative dataf.Documents	

			SDPS01 00		SDPS	The SDPS shall be responsible for delivery of EOS data and data products to the IPs, the ADCs, the ODCs, and the other science users via EOSDIS networks and on a variety of physical media.	
ASTER- 0955	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive correlative data, including associated metadata.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			SDPS01 00		SDPS	The SDPS shall be responsible for delivery of EOS data and data products to the IPs, the ADCs, the ODCs, and the other science users via EOSDIS networks and on a variety of physical media.	
			DADS23 90	functiona 1	SDPS	Each DADS shall send to the IPs, at a minimum, the following:a.L0- L4b.Metadatac.Ancil lary datad.Calibration datae.Correlative dataf.Documents	
ASTER- 0960	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive ancillary data, including associated metadata.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
ASTER- 0965	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive correlative data, including associated metadata.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	

ASTER-1000	CSMS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive ECS system and network management information.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data The SMC shall	
			1500	1		perform schedule conflict analysis and resolution services in response to a schedule conflict involving sites, ECS elements, or external elements, agencies, or organizations, except for conflicts associated with flight operations.	
ASTER- 1005	CSMS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive requests for ASTER GDS network management information.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			SMC- 1500	functiona 1	CSMS	The SMC shall perform schedule conflict analysis and resolution services in response to a schedule conflict involving sites, ECS elements, or external elements, agencies, or organizations, except for conflicts associated with flight operations.	
ASTER- 1010	CSMS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive ASTER GDS system and network management information.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	

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			SMC- 1500	functiona 1	CSMS	The SMC shall perform schedule conflict analysis and resolution services in response to a schedule conflict involving sites, ECS elements, or external elements, agencies, or organizations, except for conflicts associated with flight operations.	
ASTER- 1015	CSMS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive requests for ECS network management information.	EOSD17 70	interface	SDPS/C SMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Pr oduct Ordersf.Status data	
			SMC- 1500	functiona 1	CSMS	The SMC shall perform schedule conflict analysis and resolution services in response to a schedule conflict involving sites, ECS elements, or external elements, agencies, or organizations, except for conflicts associated with flight operations.	
ASTER- 1020	CSMS	ECS shall provide (via GFP PSCN circuits) the necessary communications connections to the ASTER designated pick up points (at JPL) for the U.S. Gateway for ESN (mission success) communications.	ESN- 0180	functiona 1	CSMS	The ESN shall connect with the International partners designated pickup points	
ASTER- 1040	CSMS	ECS shall provide protocol translation (TBR), termination, bridging, and routing for ESN communications interfaces to the U.S. Gateway for ASTER GDS communications.	ESN- 1140	functiona 1	CSMS	The ESN shall provide protocol translation, termination, bridging and routing.	

ASTER- 1060	FOS SDPS CSMS	ECS shall provide support for Transport Control Protocol/Internet Protocol (TCP/IP) [TBR] communications protocols to the U.S. Gateway for ASTER GDS communications.	ESN- 1340	functiona l	CSMS	The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs.	
ASTER- 2000	SDPS CSMS FOS	ECS functions shall have an operational availability (computed as defined in the Functional and Performance Requirements Specification for the EOSDIS Core System) of 0.96 at a minimum and a Mean Down Time (MDT) of four (4) hours or less, unless otherwise specified.	EOSD37 00	RMA	FOS/SD PS/CSM S	ECS functions shall have an operational availability of 0.96 at a minimum (.998 design goal) and an MDT of four (4) hours or less (1.5 hour design goal), unless otherwise specified.	
ASTER- 2030	FOS	The ECS FOS shall have an operational availability of 0.99925 at a minimum and a MDT of five (5) minutes or less for real time functions that support:a.Launchb.E arly orbit checkoutc.Disposald.Orbit adjustmente.Anomal y investigationf.Recovery from safe modeg.Routine real time commanding and associated monitoring for spacecraft and instrument health and safety.	EOSD38 10	RMA	FOS	The FOS shall have an operational availability of 0.99925 at a minimum (.99997 design goal) and an MDT of five (5) minutes or less (0.5 minute design goal) for non-critical real-time functions.	
ASTER- 2040	FOS	The ECS FOS shall have an operational availability of 0.992 at a minimum and a MDT of (1) hour or less for functions associated with Targets of Opportunity (TOOs).	EOSD38 20	RMA	FOS	The FOS shall have an operational availability of 0.992 at a minimum (.99997 design goal) and an MDT of one (1) hour or less (0.5 minute design goal) for functions associated with Targets Of Opportunity (TOOs).	

ASTER-2060	SDPS	The ECS SDPS function of receiving science data shall have an operational availability of 0.999 at a minimum and an MDT of two (2) hours or less.	EOSD39 00		SDPS	The SDPS function of receiving science data shall have an operational availability of 0.999 at a minimum (.99995 design goal) and an MDT of two (2) hours or less (8 minutes design goal).	
ASTER- 2080	CSMS	The ECS function for gathering and disseminating management information shall have an operational availability of .998 at a minimum and an MDT of 20 minutes or less, for critical services.	EOSD40 30	RMA	CSMS	The SMC function of gathering and disseminating system management information shall have an operational availability of .998 at a minimum (.99998 design goal) and an MDT of 20 minutes or less (5 minutes design goal), for critical services.	
			EOC- 5030	functiona 1	FOS	The EOC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following:a.Message s from the NCCb.Monitor blocks from the DSN, GN, and WOTSc.Status messages from EDOS	
			SDPS01 10		SDPS	The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.	
			 DADS20 20	functiona 1	SDPS	Each DADS shall have the capability to receive data availability schedules at a minimum, from: a.EDOSb.IPsc.ADC sd.ODCse.Other DADSf.TRMM (SDPF)	
			DADS20 60	functiona 1	SDPS	Each DADS shall communicate with the EDOS to indicate its readiness to accept data.	

		DADS14	functiona	SDPS	Each DADS shall be
		50	1		capable of screening
					its archive holdings
					of Level 1A or Level
					0 data, and if a
					product(s) is found
					to be lost or
					unreadable, generate
					a request for a
					replacement product
					from EDOS,
					dispatch the request,
					and ingest the
					replacement product.